

Claims

[c1] 1. A sun visor carrier assembly for use as a core for an over-molded expanded polypropylene sun visor suitable for use in vehicles comprising in cooperative combination:

- a)a sun visor carrier body comprising; a blade section having located therein a vanity assembly mounting device, and a rod mounting section having a bore therethrough for mounting on a sun visor rod said bore being dimensionally maintained by a at least one of fastener;
- b)a pair electrical connection wires providing electrical current to a vanity assembly;
- c)a detent clip attached to said sun visor carrier body with a detent clip fastener device;
- d)a cylindrical detent sleeve having a flat face portion, a cylindrical rod end bushing, and a cylindrical center support pin assembly comprising a body having molded therein a spaced apart pair of electrical contact surfaces, said electrical contact surfaces electrically connected said electrical connection wire of component b); all mounted within said bore of said carrier body;
- f)a covering tape over the assembled rod mounting section to prevent plastic migration during over-molding of

the carrier body; and

g)a center support assembly comprising a body having a assembly mounting bore, a pair of electrical contact clips wherein each electrical contact clip is connected to the vehicles power system by means of an electrical wire attached thereto;

thereby providing a sun visor carrier body assembly with cooperating sun visor rod and sun visor center support assembly allowing for over-molding with a plastic to produce a finished sun visor having electrical provision for a vanity assembly incorporating electrical components.

- [c2] 2.The sun visor carrier assembly as claimed in Claim 1 wherein, said sun visor carrier body comprises metal.
- [c3] 3.The sun visor carrier assembly as claimed in Claim 1 wherein, said sun visor carrier body comprises plastic.
- [c4] 4.The sun visor carrier assembly as claimed in Claim 1 wherein, said detent clip comprises a metal.
- [c5] 5.The sun visor carrier assembly as claimed in Claim 1 wherein, said detent clip fastener device is a rivet.
- [c6] 6.The sun visor carrier assembly as claimed in Claim 1 wherein, said cylindrical detent sleeve, said rod end busing, said center support pin assembly body and said

center support assembly body comprise a plastic.

- [c7] 7.The sun visor carrier assembly as claimed in Claim 1 wherein, said sun visor carrier body assembly is over-molded with a plastic forming a completed sun visor.
- [c8] 8.The sun visor carrier assembly as claimed in Claim 7 wherein, said plastic is expanded polypropylene.
- [c9] 9.The sun visor carrier assembly as claimed in Claim 1 wherein, said at least one fastener is a plurality of staples.
- [c10] 10.The sun visor carrier assembly as claimed in Claim 1 wherein, said at least one fastener is at least one sonic weld.
- [c11] 11.A sun visor carrier assembly for use as a core for an over-molded expanded polypropylene sun visor suitable for use in vehicles comprising in cooperative combination:
 - a)a sun visor carrier body comprising; a blade section having located therein a vanity assembly mounting device, and a rod mounting section having a bore therethrough for mounting on a sun visor rod said bore being dimensionally maintained by at least one fastener;
 - b)an electrical connection wire providing electrical current to a vanity assembly;

- c)a detent clip attached to said sun visor carrier body with a detent clip fastener device;
- d)a cylindrical detent sleeve having a flat face portion, a cylindrical rod end bushing, and a cylindrical center support pin assembly comprising a body having molded therein a spaced apart pair of electrical contact surfaces, one electrical contact surface electrically connected said electrical connection wire of component b) and the other electrical contact surface connected to carrier body, all mounted within said bore of said carrier body;
- e)a sun visor rod support having a flat face and mounted within said cylindrical detent sleeve such that the flat faces of each are aligned, and said cylindrical rod end bushing;
- f)a covering tape over the assembled rod mounting section to prevent plastic migration during over-molding of the carrier body; and
- g)a center support assembly comprising a body having a assembly mounting bore, a pair of electrical contact clips wherein each electrical contact clip is connected to the vehicles power system by means of an electrical wire attached thereto;
thereby providing a sun visor carrier body assembly with cooperating sun visor rod and sun visor center support assembly allowing for over-molding with a plastic to produce a finished sun visor having electrical provision

for a vanity assembly incorporating electrical components.

- [c12] 12.The sun visor carrier assembly as claimed in Claim 11 wherein, said sun visor carrier body comprises metal.
- [c13] 13.The sun visor carrier assembly as claimed in Claim 11 wherein, said sun visor carrier body comprises plastic.
- [c14] 14.The sun visor carrier assembly as claimed in Claim 11 wherein, said detent clip comprises a metal.
- [c15] 15.The sun visor carrier assembly as claimed in Claim 11 wherein, said detent clip fastener device is a rivet.
- [c16] 16.The sun visor carrier assembly as claimed in Claim 11 wherein, said cylindrical detent sleeve, said rod end bushing, said center support pin assembly body and said center support assembly body comprise a plastic.
- [c17] 17.The sun visor carrier assembly as claimed in Claim 11 wherein, said sun visor carrier body assembly is over-molded with a plastic forming a completed sun visor.
- [c18] 18.The sun visor carrier assembly as claimed in Claim 17 wherein, said plastic is expanded polypropylene.
- [c19] 19.The sun visor carrier assembly as claimed in Claim 11 wherein, said at least one fastener is a plurality of sta-

ples.

[c20] 20.The sun visor carrier assembly as claimed in Claim 11 wherein, said at least one fastener is at least one sonic weld.